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key.' Following 'General Hints' designed to aid in placing the birds under observation in the proper group, a brief description of each of the 145 species treated is given, with the names of other species with which it might be confused. There is a 'Table of Occurrence' giving the number of mornings out of the 454, during the years from 1898 to 1903 inclusive, when each was recorded. A 'Table of Arrival,' arranged systematically by families shows at a glance the year, month, and day of the first appearance of each species. A chapter of 'General Hints' upon the water and shore birds, where the larger groups are given, is followed by 'Particular Hints' upon each of the water birds given. A 'Migration Chart,' 'Key,' 'Glossary' and 'Supplemental List,' with the index, complete this closely packed little book of 66 pages. Inside the back cover there is a large checked blank for recording the migrations of the species given in the book, with additional spaces for other birds. This little book cannot fail to be of great service to those who, living in large cities, would know the birds which may be found in the parks.

L. J.

Gleanings No. III. The Haunts of the Golden-winged Warbler. By J. Warren Jacobs. Published by the author.

This thirty page brochure contains an admirable account of the summer haunts of the Golden-winged Warbler in the region of Waynesburg, Pa., from studies carried on every summer since 1891. The whole subject of nesting is interspersed with interesting descriptions of the region and with unusually good half-tones of both the region and the nesting places and nests. A color chart prepared by hand, and half-tone of a series of eggs close the work, with descriptions of sets of eggs. Mr. Jacobs is to be congratulated upon this close study of a little known warbler, and its clear presentation in interesting form.

L. J.

Birds of the Huachuca Mountains, Arizona. By Harry S. Swarth. Pacific Coast Avifauna No. 4. Cooper Ornithological Club of California. April 15, 1904.

In two pages of introduction the author acquaints us with the mountain range, its position and physical features. Sixty-three pages are devoted to 195 species and subspecies, most of them being copiously annotated. The paper is a model of faunal literature, treating of a very interesting region.

L. J.

The Metallic Colors of Feathers from the Sides of the Neck of the Domestic Pigeon. By R. M. Strong, Reprinted from the Mark Anniversary Volume, Article XIII, pp. 263-277, plate XX, 1903.

This important contribution is the result of long continued careful study of the phenomena of metallic color reflections, chiefly from the neck of the domestic pigeon. Dr. Strong seems to have well nigh exhausted the lines of investigation and concludes that 'The metallic colors of these feathers are probably thin-plate interference colors or

Newton's rings effects which are produced where spherical pigment granules come in contact with the outer transparent layer. The pigment also has the very important function of absorbing light not reflected to the eye as metallic color. The colors seen without a microscope are mixtures of colors from innumerable small points.' L. J.

Birds from Benguet Province, Luzon, and from the Islands of Lubang, Mindoro, Cuyo, and Cagayancillo. By Richard McGregor. Bulletin of the Philippine Museum, No. 3, January 30, 1904.

This number of the Philippine Museum Bulletin is devoted to Zoographical Notes for Lubang, Mindoro, Verde, Cuyo, Agutaya, Cagayancillo, and Benguet Province, Luzon, to Undescribed Plumages and Notes on the Rarer Species, to New Localities for Known Species, and to a list of Species from Irian, Benguet Province, Luzon. L. J.

Birds of Alleghany and Garrett Counties, Western Maryland. By G. Eifrig. From The Auk, Vol. XXI, No. 2, April, 1904.

The author prefaces the list proper with a brief but lucid discussion of the physical features of the region and the intricate life zones as illustrated by birds, mammals, and plants. The list contains mention of 180 species, with brief annotations. We welcome it as a thoroughly reliable local faunal list. L. J.

Wisconsin Arbor and Bird Day Annual, 1904. Compiled by Maud Barnett. Issued by C. P. Cary, State Superintendent.

This hundred page magazine is prepared with special reference to the school children, with pictures, sketches of birds and trees, selections of poetry, and articles written expressly for this Annual, or selected for their fitness. A number of full page photographs of trees from nature by A. W. Mumford, of Chicago, add to the attractiveness of the pages. The compiler has done a good work which will certainly stimulate nature study among the children for whom it was intended.

L. J.

Discovery of the Breeding Area of Kirtland's Warbler. By Norman A. Wood. From Bull. Mich. Ornith. Club, Vol. V, pp. 3-13, March, 1904.

This interesting account of the uncovering of the last warbler mystery is accompanied by four half-tones of nests and typical conditions of breeding, and a half-tone of the only egg found. Mr. Wood has here given us really more information about this rare bird, whose nesting was unknown until he discovered it, than we have of several other warblers. He has also given us careful and numerous illustrations of the song as heard in the breeding grounds. It is interesting to notice that none of the songs which he has transcribed for us resemble that which the writer listened to for a full half hour in Oberlin (see Wilson Bulletin, No. 32, page 2, July, 1900.) We can only hope that collectors will respect the rights of these birds to life, liberty and the pursuit of